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FAILSAFE OPERATION OF A HYBRID BRAKE SYSTEM FOR A VEHICLE

ABSTRACT OF THE DISCLOSURE

A hybrid brake apparatus for a vehicle includes a front hydraulically actuated brake circuit, a rear electrically actuated brake circuit, and a controller. The front hydraulically actuated brake circuit includes a master cylinder for providing pressurized fluid to the front brake circuit in response to an input applied to the master cylinder for applying a frictional front braking force. The rear electrically actuated brake circuit is controllable in response to the input for providing a frictional rear braking force. The rear brake circuit is controlled in accordance with a first predetermined relationship between the input and rear braking force during normal operation of the front brake circuit. If the controller detects a degradation of front braking force, the rear brake circuit is controlled in accordance with a second predetermined relationship between the input and the rear braking force, to thereby compensate for the degradation of front braking force.